Amendments to the Claims

Listing of Claims:

1. (CURRENTLY AMENDED) A tracking servo system for guiding a pick-up head to follow an information track, comprising:

a first means for sensing and sending a notice of displacement between the pick-up head and the center of the information track;

a second means for receiving the displacement notice and sending a first correction [disproportionate] proportionate to the displacement;

a third means for receiving the displacement notice and sending a second correction disproportionate to the displacement; and

a fourth means for receiving the first and second corrections, and producing a driving force proportionate to the sum of the first and second correction for driving the pick-up head to follow the information track.

2. (ORIGINAL) The system as claimed in claim 1 wherein the information track is an optical disc.

3. (ORIGINAL) The system as claimed in claim 1 wherein the first means is an optical sensor.

4. (ORIGINAL) The system as claimed in claim 1 wherein the pick-up head comprises a lens.

5. (ORIGINAL) The system as claimed in claim 1 wherein the first means sends the displacement with a track error signal.

6. (NEW) A tracking servo system for guiding a pick-up head to follow an information track, comprising:

a sensor configured to sense and send a notice of displacement between the pick-up head and the center of the information track;

a first controller configured to receive the displacement notice and send a first correction proportionate to the displacement;

a second controller configured to receive the displacement notice and send a second correction disproportionate to the displacement; and

a decision-making ruler configured to receive the first and second corrections, and producing a driving force proportionate to the sum of the first and second correction for driving the pick-up head to follow the information track.

7. (NEW) The system as claimed in claim 6 wherein the information track is on an optical disc.

8. (NEW) The system as claimed in claim 6 wherein the sensor is an optical sensor.

9. (NEW) The system as claimed in claim 6 wherein the pick-up head comprises a lens.

10. (NEW) The system as claimed in claim 6 wherein the sensor sends the displacement with a track error signal.

11. (NEW) A tracking servo method for guiding a pick-up head to follow an information track, comprising the steps of:

sensing a notice of displacement;

sending said notice of displacement between the pick-up head and the center of the information track;

receiving the displacement notice and sending a first correction proportionate to the displacement;

receiving the displacement notice and sending a second correction disproportionate to the displacement; and

receiving by a decision-making ruler the first and second corrections, and producing a driving force proportionate to the sum of the first and second correction for driving the pick-up head to follow the information track.

12. (NEW) The method as claimed in claim 11 wherein the information track is on an optical disc.

13. (NEW) The method as claimed in claim 11 wherein the sensor is an optical sensor.

14. (NEW) The method as claimed in claim 11 wherein the pick-up head comprises a lens.

15. (NEW) The method as claimed in claim 11 wherein the sensor sends the displacement with a track error signal.